

Title (en)
A MECHANOCHEMICAL PROCESS TO PRODUCE EXFOLIATED NANOPARTICLES

Title (de)
MECHANOCHEMISCHES VERFAHREN ZUR HERSTELLUNG VON EXFOLIERTEN NANOTEILCHEN

Title (fr)
PROCÉDÉ MÉCANOCHIMIQUE POUR PRODUIRE DES NANOPARTICULES EXFOLIÉES

Publication
EP 3652109 A4 20210505 (EN)

Application
EP 18831965 A 20180712

Priority
• EP 17181233 A 20170713
• IB 2018055156 W 20180712

Abstract (en)
[origin: WO2019012474A1] The invention relates to a mechanochemical process to produce exfoliated nanoparticles comprising the steps of:- providing a solid feedstock comprising a carbonaceous and/or mineral-based material;- providing a flow of an oxidizing gas;- introducing the solid feedstock and the flow of an oxidizing gas into a mechanical agitation unit,- subjecting the material of the solid feedstock in the presence of the oxidizing gas to a mechanical agitation operation in the mechanical agitation unit at a pressure of at least 1 atm (15 psi).The invention further relates to nanoparticles obtainable by the mechanochemical process and to the use of such nanoparticles.

IPC 8 full level
C01G 49/00 (2006.01); **C01B 32/19** (2017.01)

CPC (source: EP US)
C01B 32/19 (2017.07 - EP); **C01B 32/192** (2017.07 - US); **C01B 32/198** (2017.07 - US); **C01G 49/00** (2013.01 - EP); **C08K 3/042** (2017.04 - US); **C01B 2204/32** (2013.01 - EP US); **C01P 2002/88** (2013.01 - US); **C01P 2004/20** (2013.01 - EP); **C01P 2004/51** (2013.01 - EP); **C01P 2004/53** (2013.01 - EP US); **C01P 2004/61** (2013.01 - US); **C01P 2004/62** (2013.01 - US); **C01P 2004/64** (2013.01 - EP US); **C01P 2006/12** (2013.01 - EP); **C08K 2201/005** (2013.01 - US); **C08K 2201/006** (2013.01 - US); **C08K 2201/011** (2013.01 - US)

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Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2019012474 A1 20190117; CA 3068161 A1 20190117; CN 111148718 A 20200512; CN 111148718 B 20230609; EP 3652109 A1 20200520; EP 3652109 A4 20210505; EP 4049976 A1 20220831; EP 4282819 A2 20231129; EP 4282819 A3 20240228; JP 2020527534 A 20200910; JP 7372239 B2 20231031; US 11772976 B2 20231003; US 2021147239 A1 20210520; US 2023312350 A1 20231005; US 2023339761 A1 20231026

DOCDB simple family (application)
IB 2018055156 W 20180712; CA 3068161 A 20180712; CN 201880046762 A 20180712; EP 18831965 A 20180712; EP 22167200 A 20180712; EP 23203790 A 20180712; JP 2020523833 A 20180712; US 201816629626 A 20180712; US 202318331995 A 20230609; US 202318342829 A 20230628